Contracts to Be Let

Bids received until Jan. 30, 1915.

Laundry Building, Power House, etc.

Letchworth Village, Thiells, N. Y.

Sealed proposals for Laundry Building, Construction, Heating, Plumbing, Electric Work and Laundry Machinery; for the Power House Construction, Heating Plant and Underground Piping, Plumbing and Drainage and Electric Work at the Letchworth Village, Thiells, N. Y., will be received by the Hon. Frank A. Vanderlip, President, Board of Managers, Letchworth Village, 55 Wall Street, Room 215, New York City, until 11 A.M. on Saturday, January 30, 1915, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of 5% of the amount of bid for Construction, Heating, Plumbing and Electric Work of the Laundry Building, in the sum of $450 for Laundry Machinery, in the sum of $1300 for the Construction of Power House, in the sum of 5% of the amount of bid of Heating Plant, Underground Piping, in the sum of $60 for Plumbing and Drainage, in the sum of $25 for the Electric Work. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of 50% of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of specification Nos. 1838, 2109, 2110, 2111, 2139, 2162, 2168, 2186, 2169 and 2170. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at Letchworth Village, Thiells, N. Y.; at the New York office of the Department of Architecture, Rooom 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice and upon the deposit of a certified check in the sum of $10.00, made payable to the State of New York, for each division of the work, which check will be returned if plans and specifications are sent back in good condition to the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

Bids received until Jan. 21, 1915.

Building at State Hospital

Binghamton, N. Y.

Sealed proposals for Construction, Heating, Plumbing and Electric work for new building for Chronic Patients; for New Boiler, Stack, etc., at the Binghamton State Hospital, Binghamton, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until two-thirty p.m., Jan. 21st, 1915, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and endorsed, and shall be accompanied by a certified check in the sum of 5% of the amount of bid for Construction work; in the sum of $1250 for Heating work; in the sum of $500 for Plumbing work; in the sum of $250 for Electric work, and in the sum of 5% of the amount of bid for New Boiler, Stacks, etc. The contractors to whom awards are made will be required to furnish surety company bond in the sum of 50% of the amount of contract within thirty (30) days after official notice of award of contract, and in accordance with the terms of Specifications Nos. 2100, 2114, 2115, 2116 and 2191. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the Binghamton State Hospital, at the New York Office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice, and upon the deposit of certified check in the sum of $10.00 made payable to the State of New York, for each division of the work, which check will be returned if plans and specifications are sent back in good condition to the State Architect, Lewis F. Pilcher.

Dated Albany, N. Y., December 23, 1914.

LEWIS M. FARRINGTON,
Assistant Secretary.

Bids received until Feb. 23, 1915.

Columbia River Interstate Bridge

Portland, Oregon.

Sealed proposals will be received by the Columbia River Interstate Bridge Commission on February 23, 1915, at two P.M., in room 201 of Multnomah County Court House, Portland, Oregon, for the furnishing of all materials and performing of all work for the construction of the Columbia River Interstate Bridge and Approaches. The bridge and approaches are for highway and street car traffic and comprise about 5000 linear feet of steel structure and 12,000 linear feet of embankment; including about 9500 tons of steel, about 1,000,000 cubic yards of embankment, and about 29,000 cubic yards of concrete. Contracts will be let under several sections to one or more bidders for a part or for the whole of the work.

Proposals and bids shall be subject to all requirements of the specifications, plans, contract, contractors' bonds, and proposal forms; and shall be made upon blank forms provided in the specifications. The bidder to whom a contract may be awarded shall promptly execute a formal contract and shall furnish a penal bond with good and sufficient sureties satisfactory to the Commissioners in an amount equal to the total contract price, for the faithful performance of said contract and all provisions thereof.

To all bids there shall be attached a certified check of the bidder, certified to by a responsible bank, made payable to Wm. N. Marshall, Secretary, of an amount of ten per cent of the total bidding price, and the bidder who has a contract awarded to him and who fails promptly and properly to execute said contract, or bond, shall forfeit said check. The said check shall be taken and considered as liquidated damages and not a penalty for failure of such bidder to execute said contract and bond. Upon the execution of said contract and bond by the successful bidder, the said check shall be returned to him. The checks of unsuccessful bidders shall be returned to them after the contract and bond with the successful bidder are duly executed.

The contract will be awarded to the lowest responsible bidder, but the Commission reserves the right to reject any and all bids. Multnomah County provides five-sevenths and Clarke County two-sevenths of the funds for payments.

Plans and specifications are on file in the office of the County Clerk of Multnomah County, Oregon, in the office of the County Clerk of Clarke County, Washington, and in the office of State Commissioner of Highways at Salem, Oregon. Copies of the plans and specifications may be secured from the Secretary of the Interstate Bridge Commission at Vancouver, Washington, or from the Consulting Engineers, Waddell & Harrington, at Kansas City, Missouri, by depositing twenty-five dollars. The amount of the deposit will be refunded upon the return of the plans in good order accompanied by a bid; or one-half the amount of the deposit will be refunded upon the return of the plans in good order without a bid.

WM. N. MARSHALL, Secretary.

Bids received until Jan. 20, 1915.

Gravity Conduit

Sweetwater, Texas.

The City of Sweetwater, Texas, will open bids at 2 P.M. on January 20, 1915, for the construction of a 12" diameter cast iron gravity conduit from Lake Trammell to Sweetwater, a distance of 6¾ miles. Engineer's estimate of cost is $16,000.00 not including pipe which has been purchased by the City.

Plans and specifications are on file in the office of the City Secretary. A deposit of $15.00 will be required to guarantee the return of same in good condition.

The City reserves the right to reject any or all bids.

W. H. BARTLETT, City Secretary.

Bids received until Feb. 2, 1915.

Alterations to Electric Plant

Bath, N. Y.

Sealed proposals for alterations to Electric Plant at the New York State Soldiers & Sailors Home, Bath, N. Y., will be received by Hon. Joseph A. Goulden, President, Board of Trustees, New York State Soldiers & Sailors Home, Bath, N. Y., until February 2, 1915, at eleven o'clock A.M. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed and shall be accompanied by a certified check in the sum of 5% of the amount of bid. The contractor to whom the award is made will be required to furnish surety company bond in the sum of 50% of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of specification No. 2063. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the New York State Soldiers & Sailors Home, Bath, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check in the sum of Ten Dollars, made payable to the State of New York, which check will be returned when plans and specifications are returned in good condition to Lewis F. Pilcher, State Architect.

WILLIAM H. NICHOLS, Secretary.

Dated Bath, N. Y., January 6, 1915.

Bids received until Jan. 19, 1915.

Earth Levee

Augusta, Ga.

SEALED PROPOSALS, addressed to the City Council of Augusta, Georgia, will be received by the River and Canal Commission at its office, 747 Broad Street, Augusta, Georgia, at 12 o'clock Tuesday, January 19th, for furnishing all labor and outfit and constructing section No. 4 of the earth levee at Augusta, Georgia, requiring 250,000 cubic yards of earth fill and 30,000 cubic yards of excavation. This will be scraper or wagon work.

Also at the same time and place bids will be received for the construction of:

960 lineal feet of reinforced concrete box sewer 7 feet by four and one-half feet.
420 lineal feet of 48-inch brick sewer.
530 lineal feet of 42-inch brick sewer.
760 lineal feet of 36-inch brick sewer.
330 lineal feet of 24-inch pipe sewer.

Certified check for $300.00 will be required with each bid.

The City reserves the right to reject any and all bids.

A bond will be required from the successful bidder.

Plans and specifications can be had on application to the undersigned.

NISBET WINGFIELD, Chief Engineer,
747 Broad St., Augusta, Ga.

Bids received until Jan. 29, 1915.

Street Signs

Wilkes-Barre, Pa.

SEALED PROPOSALS will be received at the City Clerk's Office, Wilkes-Barre, Pennsylvania, until Friday, January 29th, 1915, at 12 o'clock, Noon, for furnishing all labor and materials and making complete and delivering, ready to put in place, F.O.B. cars, Wilkes-Barre, Penn., two hundred (200) more or less four-way street signs together with all necessary fittings and four hundred (400) more or less single street signs, such as are fastened to buildings. Each proposal to be accompanied by a certified bank check of the bidder in the sum of $100.00 conditioned upon the fulfillment of the contract by the bidder to whom the same is awarded in accordance to the terms of the contract to be entered into. Bids not accompanied by checks will not be considered. Proposals to be endorsed, "Proposals for Street Signs" and addressed to Fred H. Gates, City Clerk. The City Council reserves the right to reject any or all bids received.

CHARLES N. LOVELAND, Superintendent,
Department of Streets and Public Improvements.

Bids received until Jan. 19, 1915.

Bridge Construction

STATE OF MARYLAND STATE ROADS COMMISSION

SEALED PROPOSALS AS FOLLOWS:

Contract No. Bc-17 Secs. 7 and 8—BALTIMORE CITY

One (1) reinforced concrete bridge (16-30′ and 1-32′) spans, girder construction.
One (1) reinforced concrete bridge (7-15′) spans, girder construction.
} Across the main branch of Patapsco River between Baltimore and Anne Arundel Counties.

will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 19th day of January, 1915, at which time and place they will be publicly opened and read.

Bids must be made upon the blank form contained in the book of specifications. Specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Thousand ($5,000) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 7th day of January, 1915.

O. E. WELLER, Chairman.

WM. L. MARCY, Secretary.

Bids received until Jan. 20, 1915.

Fire Hydrants, etc.

Sweetwater, Texas.

The City of Sweetwater, Texas, will consider proposals at 2 P.M. of January 20, 1915, for the purchase of the following materials:

50 fire hydrants, 6″ inlet, one 4″ outlet, two 2½″ outlets, six foot barrel, automatic drain and working pressure of 125 lb. per sq. inch.

60 iron body, hub ends, gate valves in sizes ranging from 4″ to 12″ with working pressure of 125 lb. per sq. inch.

½ dozen blowoff valves for 12″ line with working pressure of 60 lb. per sq. inch.

½ dozen automatic air escapes for same line.

1500 18″ extension service boxes.

1500 water meters.

1500 Mueller corporation cocks in sizes from ½″ to 1″.

1500 wiped joint 18″ goosenecks connections from ½″ to 1″.

Above are approximate quantities required and the City reserves the right to purchase more or less as desired, or to reject all proposals.

Dealers in these materials are invited to submit data and prices on or before the above mentioned date.

GEO. T. WILSON, Mayor.

Bids received until Feb. 19, 1915.

Pumping Station and Equipment

Quincy, Illinois, January, 1915.

Sealed bids will be received until 2 o'clock P.M., February 19th, 1915, at office of Edmund T. Perkins Engineering Company, First Nat'l. Bk. Bldg., Chicago, for furnishing all materials, machinery and labor for erection and installation of an electric pumping station for the South Quincy Drainage and Levee District, Adams County, Illinois. Pumping Station requires construction of Pump House, Substation, Suction and Discharge Bays, laying of about 180 feet of C. I. pipe, hauling and erection of all machinery and wiring for electric machinery and lighting.

Bids for the pumping machinery will be received either as a whole or for each part. The plans call for 2 centrifugal pumps, equipped with chain drive and necessary auxiliaries, a 5 ton traveling crane and 2—200 H.P. motors and auxiliaries and 3—150 K.A. Transformers.

For further information address the Edmund T. Perkins Engineering Company.

The Commissioners reserve the right to reject any or all bids.

WALTER P. MARTINDALE, Secretary.

Bids received until Feb. 2, 1915.

Southerly Portion of Sec. 18—Main Sewer

PASSAIC VALLEY SEWERAGE COMMISSIONERS.

Paterson, N. J.

Notice is hereby given that the Passaic Valley Sewerage Commissioners have designated Tuesday, the second day of February, nineteen hundred and fifteen, at two o'clock in the afternoon, as the time when they will meet at their usual place of meeting, Essex Building, Clinton Street, Newark, New Jersey, to receive proposals, in writing, for the construction of the SOUTHERLY PORTION OF SECTION 18 of the MAIN INTERCEPTING SEWER, in the City of Paterson, in the County of Passaic, in New Jersey.

Particulars that may enable Contractors to judge of the character of the work are given below:

PROPOSALS WILL BE RECEIVED FOR THE CONSTRUCTION OF THE SOUTHERLY PORTION OF SECTION 18, IN PATERSON, ALONG ALTERNATE ROUTES, WHICH FOR IDENTIFICATION HAVE BEEN STYLED, AS FOLLOWS: (1) RIVER BANK ROUTE; (2) TUNNEL ROUTE.

All bids will be compared on the basis of the Engineer's Estimate of Quantities of the work to be done, as follows:

ESTIMATE OF QUANTITIES.

(1). RIVER BANK ROUTE:

Item 1.—Earth Excavation and Refilling, in trench, for 65-inch concrete sewer	2,308	Linear Feet.
Item 2.—Excavation in earth, rock or earth and rock together, and refilling, in tunnel, for 65-inch concrete sewer	1,040	Linear Feet.
Item 3.—Rock excavation, in trench	100	Cubic Yards.
Item 4.—Concrete Masonry, with Portland cement mortar, in place, in trench	2,000	Cubic Yards.
Item 5.—Concrete Masonry, with Portland cement mortar, in place, in tunnel	1,200	Cubic Yards.
Item 6.—Brick Masonry, in manholes and elsewhere, laid with Portland cement mortar, including all appurtenant work	100	Cubic Yards.
Item 7.—Steel for concrete reinforcement, in place	1,000	Pounds.
Item 8.—Rip rap, in place	2,000	Long Tons.
Item 9.—Special steel and timber sheeting and shoring between Sta. 17+25 and Sta. 18+05, including all support and protection of N. Y. S. & W. R.R. bridge, etc.		Lump Sum.

(2) TUNNEL ROUTE:

Item 1.—Earth excavation and refilling, in trench, for 65-inch concrete sewer	695	Linear Feet.
Item 2.—Excavation in earth, rock, or earth and rock together and refilling, in tunnel, for 65-inch concrete sewer	2,700	Linear Feet.
Item 3.—Rock excavation, in trench	100	Cubic Yards.
Item 4.—Concrete Masonry, with Portland cement mortar, in place, in trench	600	Cubic Yards.
Item 5.—Concrete Masonry, with Portland cement mortar, in place, in tunnel	3,100	Cubic Yards.
Item 6.—Brick Masonry, in manholes and elsewhere, laid with Portland cement mortar, including all appurtenant work	100	Cubic Yards.
Item 7.—Steel for concrete reinforcement.	2,000	Pounds.

Drawings, form of contract and specifications, and blank form for proposals may be obtained at the Commissioners' office from William M. Brown, Chief Engineer.

The Commissioners reserve the right to reject any or all bids.

PASSAIC VALLEY SEWERAGE COMMISSIONERS.
JOHN S. GIBSON, Clerk.
January 5, 1915.

Bids received until Jan. 18, 1915.

Furnishing Hardware

Albany, N. Y.

Sealed proposals for furnishing the finishing hardware for Armory and Stable for Troop B, 1st Cavalry, N. G. N. Y., Albany, N. Y., will be received by Col. Franklin W. Ward, Secretary, Board of Armory Commissioners, 174 State Street, Albany, N. Y., until 4 o'clock P.M., on Monday, January 18th, when they will be publicly opened and read. The right is reserved to reject any or all bids. Copies of the specifications, together with blank forms and envelopes for proposals can be obtained upon reasonable notice, at the Department of Architecture, Capitol, Albany, N. Y., and may be seen at the New York Office of the Department of Architecture, Room 1224, Woolworth Building, New York City.

Bids received until Jan. 20, 1915.

Paving—Contracts Nos. 102—3—4—5

OFFICE OF THE PAVING COMMISSION.

Baltimore, Maryland

SEPARATE SEALED PROPOSALS, executed in duplicate, addressed to the Board of Awards care of the City Register, will be received by him at his office in the City Hall until 11:00 A.M. Wednesday, January 20th, 1915, to grade, curb and pave with Sheet Asphalt, Vitrified Block and Granite Block, all on a concrete base, the streets listed in the following contracts:

VITRIFIED BLOCK & GRANITE BLOCK PAVING CONTRACT NO. 102.

	from	to
Franklin St.	Fremont Ave.	Penna. Ave.
Druid Hill Ave.	Paca St.	McMechen St.
George St.	Myrtle Ave.	Penna. Ave.

Vitrified Block—21,000 sq.yds.
Granite Block— 6,720 " "
Certified Check—$1,800

SHEET ASPHALT, VITRIFIED BLOCK AND GRANITE BLOCK PAVING CONTRACT NO. 103.

Fremont Ave.	Lexington St.	Penna. Ave.
George St.	Fremont Ave.	Myrtle Ave.
Biddle St.	Shields Place	Brevard St.
Druid Hill Ave.	Eutaw St.	Paca St.
Druid Hill Ave.	McMechen St.	North Ave.

Sheet Asphalt— 36,800 sq.yds.
Vitrified Block—11,750 " "
Granite Block— 11,250 " "
Wood Block— 800 " "
Certified Check—$4,000

SHEET ASPHALT, VITRIFIED BLOCK AND GRANITE BLOCK PAVING CONTRACT NO. 104.

Carey St.	Pratt St.	North Ave.
Edmondson Ave.	Fulton Ave.	Gilmor St.
Edmondson Ave.	Calhoun St.	Fremont Ave.

Sheet Asphalt— 34,550 sq.yds.
Vitrified Block—15,800 " "
Granite Block— 2,330 " "
Wood Block— 1,650 " "
Certified Check—$3,300

SHEET ASPHALT, VITRIFIED BLOCK AND GRANITE BLOCK PAVING CONTRACT NO. 105.

Greene St.	Lexington St.	Franklin St.
Read St.	Cathedral St.	Calvert St.
Dolphin St.	Fremont Ave.	Brevard St.
Lanvale St.	Druid Hill Ave.	Madison Ave.
Mosher St.	Arlington Ave.	Division St.

Sheet Asphalt— 20,500 sq.yds.
Vitrified Block—13,000 " "
Granite Block— 4,560 " "
Wood Block— 900 " "
Certified Check—$2,500

The figures above represent the approximate quantities of the principal items appearing in the contracts.

Specifications and proposal sheets can be obtained upon application to the office of the Paving Commission, City Hall. A deposit of $5.00 will be required for a specification covering each contract. This will not be refunded unless a bid is filed.

Plans and profiles are on file for the information of bidders in the office of the Consulting Engineer.

The Board of Awards reserves the right to reject any and all bids. A certified check of the bidder on a clearing house bank, drawn to the order of the Mayor and City Council of Baltimore to the amount as recited above, must accompany each bid.

The successful bidder will be required to furnish bond and to comply with the City Charter respecting contracts.

By order of the Paving Commission.

R. KEITH COMPTON,
Chairman and Consulting Engineer.

J. MYERS HEDIAN, Secretary.
Approved: JOHN HUBERT,
Acting Pres. Board of Awards.

Bids received until Jan. 27, 1915.

Southeast End Sewer District

Rockford, Ill., Jan. 9, 1915.

Sealed proposals will be received until 11 o'clock A.M. January 27, 1915, at the office of the President of the Board of Local Improvements of the City of Rockford, Illinois, for the construction of what is known as the Southeast End Sewer District. Approximate quantities as follows: 17,081 ft. of 9-inch sewer pipe, 11,942 ft. 10-inch, 8324 ft. 12-inch, 4181 ft. 15-inch, 1063 ft. 18-inch, 1779 ft. 20-inch, 787 ft. 24-inch, 3641 ft. 27-inch, 1326 ft. 30-inch, 8135 ft. 33-inch, 49 ordinary manholes, 41 combination manholes, 33 lampholes, and 10 flushtanks.

Plans and specifications will be furnished upon application to the City Engineer of the City of Rockford.

W. W. BENNETT,
President of the Board of Local Improvements.

Bids received until Feb. 15, 1915.

Electric Hoists

DEPARTMENT OF WHARVES, DOCKS AND FERRIES,
555 Bourse Building,
Philadelphia, January 7, 1915.

Sealed proposals endorsed "Bids for Electric Hoists at Southwark Piers, in the Delaware River, between Catharine and Christian Streets," and addressed to the undersigned at the office above mentioned, will be received until 12 o'clock noon, Monday, February 15, 1915, and then publicly opened.

Plans, specifications and blank forms upon which bids must be made can be obtained at the office above mentioned.

The bidders' attention is called to the fact that either one or two 50 H.P. Electric Winches with remote control will be purchased, and that bids are solicited and payment for the above mentioned work is to be made out of the Loan of $11,300,000 voted for at an election held November 3, 1914, when the same has been appropriated by City Councils.

No bid will be considered unless accompanied by a certificate from the City Solicitor to the effect that the provisions of an Ordinance requiring proposal bonds on all bids exceeding in amount $500.00, approved May 25, 1860, have been complied with.

The Director reserves to himself the right to reject any or all bids as he may deem best for the interest of the City of Philadelphia.

GEO. W. NORRIS, Director.

Bids received until Jan. 21, 1915.

Water Softening Plant

Buffalo, N. Y.

Sealed proposals for Water Softening Plant at the Buffalo State Hospital, Buffalo, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 2:30 p.m., January 21st, 1915, when they will be publicly opened and read. Proposals shall be made on blanks and enclosed in an envelope; all furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of Five per cent. (5%) of the amount of bid. Contractor, to whom the award is made, will be required to furnish surety company bond in the sum of fifty per cent. (50%) of the amount of contract within Thirty (30) days after official notice of award of contract, and in accordance with the terms of specification No. 1997. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the Buffalo State Hospital, Buffalo, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to, and in the discretion of the State Architect, Lewis F. Pilcher.

E. S. ELWOOD, Secretary.
Dated, Albany, N. Y., January 8, 1915.

Bids received until Feb. 9, 1915.

Sedimentation Basin

Philadelphia, Pa.

Bids will be received at Room 216 City Hall, Philadelphia, and opened February 9, 1915, at noon, in Room 225 City Hall, Philadelphia, for a Sedimentation Basin at Torresdale filters. Bidders will be required to file a bond for $500, and an additional surety company guarantee with bid. Plans and specifications can be had at Room 701 City Hall. A deposit of $10.00 is required for plans and specifications.

Bids received until Jan. 20, 1915.

Stand Pipe

Sweetwater, Texas.

The City of Sweetwater will consider proposals at 2 P.M. of January 20, 1915, for furnishing and erecting a 250,000 gallon capacity cylindrical steel stand pipe, 28′ in diameter and 60′ high. Concrete base will be constructed by the City. Manufacturers are invited to submit plans, specifications and prices on or before the above date.

Bids received until Jan. 21, 1915.

Motor for Laundry

Poughkeepsie, N. Y.

Sealed proposals for Motor for Laundry at the Hudson River State Hospital, Poughkeepsie, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 2:30 P.M., Jan. 21, 1915, when they will be publicly opened and read. Proposals shall be enclosed in envelopes furnished by the State Architect, sealed and endorsed, and shall be accompanied by a certified check in the sum of One hundred fifty Dollars. The contractor to whom the award is made will be required to furnish a surety company bond in the sum of 50% of the amount of contract within thirty days after official notice of award of contract, and in accordance with the terms of specification No. 2144. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the Hudson River State Hospital, Poughkeepsie, N. Y., at the New York office of the Department of Architecture, Room No. 1224, Woolworth Building; at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposals may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, Lewis F. Pilcher.

LEWIS M. FARRINGTON,
Assistant Secretary.
Dated, Albany, N. Y., December 30, 1914.

Bids received until Jan. 29, 1915.

Open Well

Bedford Hills, N. Y.

Sealed proposals for New Large Open Well at the New York State Reformatory for Women, Bedford Hills, N. Y., will be received by Hon. James Wood, President of the Board of Managers, New York State Reformatory for Women, Bedford Hills, N. Y., until 2 P.M., January 29, 1915, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of 5% of the amount of bid. Contractors to whom the award is made will be required to furnish surety company bond in the sum of 50% of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of specification No. 2171. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the New York State Reformatory for Women, Bedford Hills, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, Lewis F. Pilcher.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., January 5, 1915.—Plans and specifications are now approaching completion for a central heating, lighting and power plant, to be erected in this city under the direction of this office. These plans and specifications will be ready for delivery on or after January 15. Bids may be submitted for the entire work or for any one of the following sections: Power plant building complete, with steel stacks; boilers; generating apparatus; pumping equipment; condensers; coal and ash handling apparatus; steam and water piping; switching gear; tunnels; substation apparatus; etc. Prospective bidders should immediately submit to this office applications for plans and specifications, stating the portions of the work upon which they desire to bid. If it appears that the applicant is in a position to bid on all of the work in any one of the sections of the project, or upon the entire work, the plans and specifications will be forwarded. No plans or specifications will be furnished sub-bidders or others not in a position to submit a bid on all of the work comprised in at least one section. The Department will be able to allow only about 15 days for the preparation of estimates. At the time plans and specifications are forwarded to bidders the date for the opening of bids will be stated, and this date will not be extended. O. WENDEROTH, Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., January 2, 1915.—SEALED PROPOSALS will be opened in this office at 3 p.m., March 6, 1915, for the construction complete (including mechanical equipment, except elevator and approaches) of the United States Post Office and Court House at Lawton, Oklahoma, Three story and basement building; ground-area, 6,700 square feet; fireproof construction; stone and brick facing; tin roof. Drawings and specifications may be obtained after January 23, 1915, from the Custodian of site at Lawton, Oklahoma, or at this office, in the discretion of the Supervising Architect. O. WENDEROTH, Supervising Architect.

Bids received until Feb. 8, 1915.

Ashby Reservoir

FITCHBURG, MASS., WATER WORKS.

Sealed bids for constructing Ashby Reservoir, Fitchburg Water Supply System, will be received by the Board of Water Commissioners at their office, City Hall, Main Street, Fitchburg, Mass., until 2 o'clock P.M., Monday, February 8, 1915. Bids must be upon the blank form of proposal furnished. Each bid must be accompanied by a certified check drawn on a National bank or trust company established in some city in the State of Massachusetts, or the City of New York, for seven thousand five hundred dollars ($7,500). A contract bond in the sum of thirty-five thousand dollars ($35,000) with a surety company will be required. The main features of the construction are an earth dam approx. 1040 ft. long, max. height about 25 ft.; an earth dike approx. 1090 ft. long, max. height about 19 feet; thin reinforced concrete curtain walls for both dam and dike; concrete spillway dams and paved channel; concrete gate-well, gate-house, gate manhole and pipe lines; and about 7,000 linear feet of gravel road construction.

The principal items of work are approximately as follows:

Clearing and grubbing	60 acres
Earth excavation	54,000 cubic yards
Rock excavation	4,700 cubic yards
Concrete masonry	3,000 cubic yards
Steel reinforcing bars	210,000 pounds
Stone paving	55,000 square yards

Required date of completion of contract July 1, 1916. Premium for completion October 1, 1915, five thousand dollars ($5,000). Contract drawings, form of proposal, contract and specifications may be obtained at office of the Water Commissioners in Fitchburg, or at office of Metcalf & Eddy, Engineers, 14 Beacon Street, Boston, Mass., after Jan. 16. A deposit of ten dollars ($10) will be required on plans and specifications. Plans and specifications may also be seen at office of Metcalf & Eddy, Harris Trust Bldg., Chicago, Ill., and at office of "Engineering News," New York City.

THOMAS P. SHELDON,
ARTHUR A. TRAIN,
FRANK H. FOSS,
Board of Water Commissioner

METCALF & EDDY,
Consulting Engineers, Boston, Mass.
January 12, 1915.

SEALED PROPOSALS will be received at the Office of the Lighthouse Inspector, Philadelphia, Pa., until 2 o'clock p.m., February 1, 1915, and then opened, for repairs and extensions to timber groynes and bulkhead at Cape Henlopen, Delaware. Blank proposals and particulars may be obtained by addressing the above Office.

PROPOSALS FOR MATERIAL FOR THE PUMPING PLANT OF DRY DOCK No. 1, Balboa Terminals.—Sealed proposals will be received at the office of the General Purchasing Officer, The Panama Canal, Washington, D. C., until 10:30 A.M., February 24, 1915, at which time they will be opened in public, for furnishing the above-mentioned articles. Blanks and general information relating to this Circular (No. 891) may be obtained from this office or the offices of the Assistant Purchasing Agents, 24 State Street, New York City; 614 Whitney Central Building, New Orleans, La.; and 1086 North Point Street, San Francisco, Cal.; also from the U. S. Engineer Offices in the following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Md.; Philadelphia, Pa.; Pittsburgh, Pa.; Boston, Mass.; Buffalo, N. Y.; Cleveland, Ohio; Cincinnati, Ohio; Chicago, Ill.; St. Louis, Mo.; Detroit, Mich.; Milwaukee, Wis.; St. Paul, Minn.; Chattanooga, Tenn.; Louisville, Ky.; Mobile, Ala., and Galveston, Tex.; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill.; and Commercial Club, Tacoma, Wash. F. C. BOGGS, Major, Corps of Engineers, U. S. A., General Purchasing Officer.

PROPOSALS FOR VALVES AND ACCESSORIES for Dry Dock No. 1, Balboa Terminals.—Sealed proposals will be received at the office of the General Purchasing Officer, The Panama Canal, Washington, D. C., until 11:30 a.m., February 24, 1915, at which time they will be opened in public, for furnishing the above-mentioned articles. Blanks and general information relating to this Circular (No. 892) may be obtained from this office or the offices of the Assistant Purchasing Agents, 24 State Street, New York City; 614 Whitney-Central Building, New Orleans, La., and 1086 North Point Street, San Francisco, Cal.; also from the U. S. Engineer Offices in the following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Md.; Philadelphia, Pa.; Pittsburgh, Pa.; Boston, Mass.; Buffalo, N. Y.; Cleveland, Ohio; Cincinnati, Ohio; Chicago, Ill.; St. Louis, Mo.; Detroit, Mich.; Milwaukee, Wis.; St. Paul, Minn.; Chattanooga, Tenn.; Louisville, Ky.; Mobile, Ala., and Galveston, Tex.; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill., and Commercial Club, Tacoma, Wash.—F. C. BOGGS, Major, Corps of Engineers, U. S. A., General Purchasing Officer.

Bids received until Feb. 1, 1915.

Storm and Sanitary Sewer Construction

San Antonio, Tex., January 9, 1915.

Sealed bids will be received by the undersigned until 4:00 o'clock p.m., on February 1st, 1915, for the construction and completion of Sanitary Sewers and Storm Water Sewers previously let to Wm. G. Schuwirth Co., in approximate amounts and sizes as follows:

Cherry Street Sanitary Intercepting Sewer, Contract Section No. 20.

Vitrified Sewer Pipe.	Vitrified Segmental Blocks
3060′ of 8″	2730′ of 30″
1040′ of 8″	6090′ of 36″
1040′ of 10″	1065′ of 39″
950′ of 12″	750′ of 45″
1764′ of 15″	2330′ of 48″
458′ of 20″	45′ of 60″

With all necessary inlets, manholes, etc., etc.

Grove Avenue Storm Sewer Contract, Section No. 112.

No. 2 D. S. Vitrified Pipe.	Plain Monolithic Concrete.
900′ of 12″	980′ of 64″
700′ of 15″	740′ of 72″
350′ of 18″	390′ of 74″
	5020′ of 76″

With all necessary inlets, manholes, etc., etc.

Cherry Street Storm Sewer, Contract Section No. 113.

No. 2 D. S. Vitrified Pipe.	Plain Monolithic Concrete.
2800′ of 12″	700′ of 24″
750′ of 15″	430′ of 28″
650′ of 18″	490′ of 36″
	1030′ of 44″
	390′ of 50″
	470′ of 52″
	950′ of 54″
	940′ of 58″
	2380′ of 60″
With all necessary inlets, manholes, etc., etc.	1840′ of 68″
	300′ of 74″
	2050′ of 76″

Separate proposals will be required on each of the three sewers, and shall be and remain, regardless of each of the other, subject to acceptance by the City Council for a period of two weeks after the date for receiving said bids, or not being so accepted shall be deemed to have been rejected.

Separate certified checks or cashier's checks on San Antonio banks, equal to 10% of bid must accompany each proposal, made payable to J. Frank Gallagher, City Treasurer, and construction bond of 25% will be required of the successful bidder.

The City of San Antonio reserves the right to reject any and all bids.

For bidders' blanks, specifications and other information address Hans Helland, City Engineer.

FRED FRIES, City Clerk.

U. S. ENGINEER OFFICE, First District, New York City, Room 710, Army Building, 39 Whitehall Street, New York, N. Y., December 22, 1914.—Sealed proposals for Dredging in Hudson River Channel, N. Y., will be received at this office until 12 M., January 22, 1915, and then publicly opened. Information on application. W. M. BLACK, Col. Engrs.

U. S. ENGINEER OFFICE, Cincinnati, O., Dec. 26, 1914.—Sealed proposals for constructing Lock and Dam No. 33, Ohio River, near Maysville, Ky., will be received at this office until 2 p.m. (Central Time), January 26, 1915, and then publicly opened. Information on application. H. JERVEY, Lt. Col., Engrs.

PROPOSALS FOR CONSTRUCTING CONCRETE STOREHOUSE, Office Const. Quartermaster, U. S. A., Fort Warren, Mass., December 18, 1914.—Sealed proposals in triplicate will be received at this office until 12 o'clock noon, January 18, 1915, and then opened for furnishing all labor and materials for the construction of a Concrete Storehouse at Fort Strong, Mass. Full information furnished upon application. Deposit certified check, $5.00 required for plans. CAPT. H. T. MATTHEWS, Q.M.C., Const. Quartermaster.

U. S. ENGINEER OFFICE, First District, New York City, Room 710 Army Building, 39 Whitehall Street, New York, N. Y., January 12, 1915.—Sealed proposals for dredging in Harlem River, N. Y., will be received at this office until 12 M., February 11, 1915, and then publicly opened. Information on application. W. M. BLACK, Col. Engrs.

U. S. ENGINEER OFFICE, Wheeling, W. Va., December 30, 1914.—Sealed proposals for furnishing and erecting steel lock gates for Dam No. 15, Ohio River, will be received at this office until 11 a.m. (Eastern time), January 30, 1915, and then publicly opened. Information on application. T. H. JACKSON, Major, Engrs.

U. S. ENGINEER OFFICE, CHICAGO, ILL., Dec. 19, 1914.—Sealed proposals for reconstructing with piles and timber, part of East Pier at Michigan City Harbor, Ind., will be received at this office until 10 A.M., Jan. 19, 1915, and then publicly opened. Information on application. W. V. JUDSON, Lt.-Col., Engineers.

Classified Advertising

Positions Wanted, 3 cents a word, minimum charge 50 cents an insertion, payable in advance.

Positions Open, (Civil Service Examinations), **Employment Agencies** (Labor Bureaus), **Business Opportunities, Wanted** (Agents and Salesmen—Contract Work), **Miscellaneous** (Educational—Books), **For Sale,** 5 cents a word, minimum charge $1.00 an insertion.

Count four words for keyed address care of New York; five for Chicago. Abbreviated words or symbols count as full words.

Copy should reach us not later than 10 A.M. Wednesday for that week's issue. Answers addressed to our care, Tenth Avenue at Thirty-sixth St., New York or 1144 Monadnock Block, Chicago will be forwarded (excepting circulars or similarliterature).

No information given by us regarding keyed advertiser's name or address. Original letters of recommendation or other papers of value should not be inclosed to unknown correspondents. Send copies.

Advertisements calling for bids, $3.60 an inch per insertion. N

POSITIONS WANTED

Mechanical and Electrical Engineers

GRADUATE MECHANICAL ENGINEER; 25; with 3 years' broad experience handling men and selling building specialty; references. P. W. 702, Eng. News, Chicago.

MECHANICAL ENGINEER, 20 years' experience financial, executive, selling and advertising work, open for engagement. P. W. 674, Eng. News.

MECHANICAL ENGINEER, 34, technical school and 12 years' broad experience, desires position, in or near New York preferred. P. W. 730, Eng. News.

Civil Engineers

ENGINEER, 14 years' experience; surveys on railroad location and construction, irrigation, drainage, United States Geological, subdivisions, flood prevention and sewers. Flitman, 7 West Harrison, Danville, Ill.

CIVIL ENGINEER, 26, technical graduate, 5 years' experience in railroad maintenance and municipal engineering and construction. Good references. P. W. 686, Eng. News, Chicago.

CIVIL ENGINEER, 24, university graduate, with two years' varied building construction experience, will accept anything reasonable; efficient; well recommended. P. W. 690, Eng. News.

CIVIL ENGINEER; technical graduate with business experience; 11 years' engineering experience in general and coal mine surveying, railroad construction, structural detailing and special track design. Would make an able assistant to a consulting engineer. P. W. 691, Eng. News.

CIVIL ENGINEER, technical graduate, with seven years' experience in field and office, desires responsible position. P. W. 692, Eng. News.

GRADUATE ENGINEER, 29, four years' experience railroad mainttenance and construction, two years reinforced concrete and structural steel design. P. W. 739, Eng. News.

GRADUATE CIVIL ENGINEER; 6 years' experience, structural drafting railroad work and factory construction. P. W. 723, Eng. News.

CIVIL ENGINEER; graduate, 12 years' practical experience with consulting engineers and utility companies; water works and other utilities; preliminary investigations, design, construction, appraisals. References. P. W. 726, Eng. News.

EXPERIENCED CONSTRUCTION ENGINEER, good executive manager, superintendent, designer, estimator on bridges, concrete, railway construction; position desired with contractor, engineers or controllers of public utilities; technical graduate; salary reasonable. P. W. 711, Eng. News.

CIVIL ENGINEER; graduate, nine years' experience in building construction, designing, estimating and superintending steel and reinforced concrete work desires connection with contractor. P. W. 728, Eng. News.

CIVIL ENGINEER, 1912; one year experience on highway construction; two years on railroad work. Will start at reasonable salary if good opportunity for advancement is offered. P. W. 729, Eng. News.

CIVIL ENGINEER; 10 years' experience, field and office, desires position; structural or reinforced concrete design and estimates; railroad or municipal. P. W. 670, Eng. News, Chicago.

GRADUATE ENGINEER, 26, married; one year construction, nine months municipal, three years structural; desire position with engineer or contractor. P. W. 716, Eng. News.

CIVIL ENGINEER; good technical education; six years' experience in field, drafting and design, timber, steel and concrete structures (specializing in reinforced concrete), tracks, yards and earthwork, on heavy railroad construction and Panama Canal. P. W. 737, Eng. News.

CIVIL ENGINEER, four years' experience structural steel and reinforced concrete; position with city or county engineer desired; experience desired rather than large salary. P. W. 714, Eng. News, Chicago.

CIVIL ENGINEER, 12 years' experience on large electric-power houses, reservoirs, foundation and railroad construction; moderate salary. P. W. 715, Eng. News, Chicago.

GRADUATE CIVIL ENGINEER, 26, experienced in pavement construction, and structural detailing and design, desires position. P. W. 717, Eng. News.

ENGINEER, 37, with 12 years' experience in design, construction and economies of hydro-electric and water-front developments, also fireproof buildings, desires position of trust and adequate renumeration. P. W. 707, Eng. News, Chicago.

Bridge and Structural

CHIEF DRAFTSMAN, charge 60 men, desires change; age 35; strong personal force; proved executive ability; 14 years' comprehensive experience. P. W. 520, Eng. News.

GRADUATE ENGINEER; designer bridge and structural work, reinforced concrete, railway and transmission line structures; general contracting and building. Experience in office and field. Open for engagement. P. W. 683, Eng. News.

STRUCTURAL DRAFTSMAN, age 24, having some gasoline engine experience also speaks and writes modern Greek fluently. P. W. 676, Eng. News.

STRUCTURAL ENGINEER; Quebec bridge experience; can design detail, check or take charge of work. P. W. 731, Eng. News.

STRUCTURAL ENGINEER; technical graduate; good all around steel man; also thorough knowledge of reinforced concrete. P. W. 732, Eng. News.

STRUCTURAL STEEL DRAFTSMAN; thoroughly experienced in designing detailing and checking; excellent reference; wishes position in New York or vicinity. P. W. 733, Eng. News.

STRUCTURAL ENGINEER; designer, detailer and checker; five years' good experience; technical graduate. P. W. 734, Eng. News.

BRIDGE AND STRUCTURAL ENGINEER; responsible experience with large bridge company in Canada. P. W. 735, Eng. News.

Surveyors

INSTRUMENTMAN, field draftsman or position with contractor; five years' experience railway work, also street railway construction experience; three years estimating, timekeeping and inspecting; A-1 references; location immaterial. P. W. 718, Eng. News, Chicago.

INSTRUMENTMAN, topographer, map draftsman; thorough experience, own instruments; first class. P. W. 720, Eng. News, Chicago.

FIELDMAN, computator, accurate draftsman, fair letterer, graduate engineer, 14 years' steady experience in precise instrument work; large tracts and farm surveys, stadia, triangulation and general field and office work; one year municipal; would like to get on municipal or general engineering work, but will accept any position for which I am qualified with reliable firm having future prospects; salary reasonable; good reference; 35 years old. P. W. 721, Eng. News.

Draftsmen

DRAFTSMAN, designer; steel, general construction, 15 years; experience in charge, immediately available, city. P. W. 669, Eng. News.

Lady desires position as draftsman in engineer's office; salary moderate; location anywhere. P. W. 736, Eng. News, Chicago.

FIRST CLASS structural checker and squadman, twelve years' experience; bridges, buildings, industrial plants, with steel mills and construction companies. Good executive, first class reference. Available, February first or before. P. W. 738, Eng. News.

DRAFTSMAN, designer with broad experience in mechanical and structural lines. Best references. Will go anywhere. P. W. 724, Eng. News.

CONTRACTOR'S ESTIMATOR requires position quick, reliable and accurate. P. W. 741, Eng. News.

Superintendents, Etc.

SUPERINTENDENT of building construction of broad experience, available January 1. References. Anywhere. P. W. 646, Eng. News.

SUPERINTENDENT, ESTIMATOR, 15 years' experience, executive ability, desires responsible position; go anywhere. P. W. 700, Eng. News, Chicago.

AGE, 26; college graduate; 8 years' experience in field and office along mining and steel works construction lines; location immaterial; best references. P. W. 704, Eng. News.

ESTIMATOR TO GENERAL CONTRACTOR; reliable, industrious; graduate C. E.; over 10 years' experience buildings and general engineering, private and public work; good designer and draftsman; reinforced concrete and fireproofing specialist; excellent knowledge of quantities on masonry, carpentry and allied building trades; will be open for engagement Jan. 15. P. W. 701, Eng. News.

GENERAL FOREMAN, 15 years' experience, 10 years on building and repairing of dams and powerhouses, first class on plant layout derricks, orange peel and dragline bucket work; anywhere after Jan. 15. References. P. W. 678, Eng. News, Chicago.

ENGINEER or GENERAL FOREMAN; 4 years in Mexico on hydraulic dam and railroad construction; 3 years on canal and railroad location; at present employed, desires to locate in South America; speaks Spanish. P. W. 680, Eng. News.

MIDDLE AGED MAN, 15 years' practical experience, general contracting, desires responsible position as superintendent and estimator. P. W. 685, Eng. News.

SALES ENGINEER, college graduate, seven years' engineering experience, mechanical and structural steel, wants to get into the selling end on salary or to take agency. P. W. 710, Eng. News, Chicago.

AS CONSTRUCTION FOREMAN or general foreman, Latin-American experience; six years conversant Spanish, Portuguese, English; best references; go anywhere; age 26. P. W. 722, Eng. News.

PRACTICAL CONCRETE SUPERINTENDENT; fifteen years' experience in New York City, all kinds of concrete work, cement paving and cinder concrete fireproofing; experienced with foreign laborers. Good solicitor and estimator. Anywhere. P. W. 725, Eng. News.

SALES ENGINEER; nine years' experience, desires Cleveland connection with building material company. P. W. 727, Eng. News.

CONTRACTORS SUPERINTENDENT; graduate engineer; 4½ years' experience in reinforced concrete and general construction; Baltimore or Philadelphia interview. P. W. 713, Eng. News.

POSITIONS OPEN

YOUNG MAN with good technical education and knowledge of stenography wanted in contractor's office. $50 month. Apply 38 Park Row, N. Y. Room, 1103.

CHIEF DRAFTSMAN, first class, to take charge of department; must have ample experience in making shop drawings for interior marble work, be able to handle force properly and keep actual cost of drawings within estimated allowance. P. 708, Eng. News.

STRUCTURAL DRAFTSMEN—Two detailers, and a chief draftsman capable to assist in designing steel structures; state age, experience, salary expected, married or single. Anthracite Bridge Co., Scranton, Pa.

Employment Agencies

The Employment Agencies advertising in this paper agree to refund any registration fee on demand any time within the first six months when no position is secured.

ENGINEERING MEN in every line for available positions. Applicants and employers write, The Toledo Engineering Agency, Toledo, Ohio.

WANTED

COPIES of Dec. 24, 1914, issue of "Engineering News"; will pay 15c. each and postage. Address Subscription Department, "Engineering News."

Agents and Salesmen

A GRADUATE CIVIL ENGINEER wishes to communicate with reliable manufacturers of high-grade building products wishing to be represented in Montreal. W. 719, Eng. News.

BELGIAN RECONSTRUCTION EXPERT actually head of well established concrete building firm in Brussels wishes to enter into negotiations with reliable contracting firm in view of rebuilding destroyed Belgian cities; A-1 references asked and given. Answer P. O. Drawer 435, Stockholm I, Sweden.

RUSSIAN, technical man, leaving for Russia, wants to represent some American manufacturer or look after his interest there; wide experience and acquaintance in engineering and business world of Russia; five years' American experience in engineering lines; best of references. W. 712, Eng. News.

BUSINESS OPPORTUNITIES

ENGINEER, ten years' general construction experience, wants partner with capital for building concrete and brick roads in Ohio. B. O. 682, Eng. News.

ENGINEER, mechanical and structural experience, with small capital, wants connection with established engineering, contracting or manufacturing firm as partner; Milwaukee or Chicago location preferred. B. O. 709, Eng. News, Chicago.

ENGINEER of established reputation on Pacific Coast desires partner with capital to form corporation for general engineering and contracting; previous experience or technical knowledge and ability as a business getter required; New York City interview. B. O. 742, Eng. News.

FOR SALE

NINE BOUND VOLUMES OF "ENGINEERING NEWS," in first-class condition, from July, 1901, to Dec., 1905, Vols. 46 to 54, inclusive. John W. Ash, 528 Temple Court Bldg., Chattanooga, Tenn.

Classified List

Second Hand Machinery, Material and Equipment

For Sale—Exchange—Rent—Wanted

Items not otherwise marked list equipment for sale.

Rates: Less than 4 insertions 55 cents per line—4 to 11 insertions 50 cents per line—12 or more insertions 45 cents per line.

N

ADDRESSES

BECKWITH, J. S., 108 Park Way, N. S., Pittsburgh, Pa.

BRADEN, James C., 26 Cortlandt St., N. Y. City.

CARPENTER & ANDERSON, Union Trust Bldg., Detroit.

CONTRACTORS' Service Co., 50 Church St., N. Y. City.

DALLETT & CO., Harrison Bldg., Phila., Pa.

DOUGLAS, Geo. B., 29 Broadway, New York.

GIVIN Co., Herbert, 30 Church St., N. Y. City.

GRIMSHAW CO., Wm. B., Drexel Bldg., Phila., Pa.

HITNER'S Sons Co., Henry A., Philadelphia, Pa.

HOISTING Engine Sales Co., 120 West 32d St., New York.

HYATT, C. W., 93 E. Oneida St., Baldwinsville, N. Y.

LINES FLYNN Co., Inc., 30 Church St., N. Y. City.

MARINE Metal and Supply Co., 167 South St., N. Y. City.

NEW RIVER Co., The, Macdonald, W. Va.

PIPE & Contractors Supply Co., 3 Dover St., N. Y. City.

SAMPSON Co., Geo. H., 13 Pearl St., Boston, Mass., and 42 B'way, N. Y. C.; or Winston & Co., Brown Station, N. Y.

SOUTHERN Iron & Equipment Co., Atlanta, Ga.

STALLEY, G. T., Box 390, Cleveland, Ohio.

WHITNEY, O. R., 39 Cortlandt St., N. Y. C. (Cort. 6095).

AIR COMPRESSORS

2—Ingersoll-Rand, Cross Compound steam and air cylinders with Corliss valve gear 2500 cu. ft. capacity.—SAMPSON.

2—Ingersoll-Rand, Cross Compound Steam and Air Cylinders with Corliss valve gear 3300 cu.ft. capacity. Boilers and Condensers with this plant. All in good condition. Bargain.—SAMPSON.

1—4700 Cu. Ft. Rand B. B. 3 Compound Steam and Compound Air Compressor with Condenser.—SAMPSON.

Several second-hand air compressors, steam and belt driven, straight line and two stage of various sizes from 70 to 1300 cu. ft. capacities. Good condition.—SAMPSON.

1—22x22-13-¼x24, Sullivan, steam driven, class WB 2, straight line, 2 stage, cap., 1160 cu. ft., 1—24x24x30, McKiernan, class A, straight line, steam driven, cap. 1414 cu. ft.; 1—24x24-¼x30, Ingersoll, class A, steam driven, straight line, cap. 1223 cu. ft., 2—16x20-¼x16, Ingersoll-Sargeant, class H-1, duplex, steam driven, cap. 1540 cu. ft.—HITNER'S.

1 Blaisdell 16x10x10, 60 H.P., 342 cu.ft. First class condition. Theo. Smith & Sons Co., Jersey City, N. J.

Steam driven, 3 Laidlaw-Dunn-Gordon duplex 2-stage and 5 Norwalk tandem 2-stage.—NEW RIVER.

BOILERS

5—250 H.P. B. & W., 150 lbs. steam. Horizontal return tubular, 2—72"x20', 1—78"x20', 1—72"x18', 1—72"x15', 1—72"x 14', triple riveted, butt strapped, 125 lbs. steam.—HITNER'S.

150 H.P. horizontal tubular, Union, Atlas, Erie City, Keeler and West Point. Pressure up to 125 lbs.—NEW RIVER.

40, 50, 60 and 80 H.P. loco. type on skids.—PIPE & C. S. CO.

BUCKETS

One four leaf 1 yd. Orange peel.—PIPE & C. S. CO.

5—¾ cu. yd. standard clam shells.—STALLEY.

1—1 yd. Williams single line clam shell.—BECKWITH.

Orange peel—¾, 1, 1¼, 1½ yd. capacity; clam shell—½ to 3 yd. capacity.—GIVIN.

2—½ yd. steel hoisting buckets.—HYATT.

CRUSHERS

Farrel Jaw, 15x9, with screen and engine.—MARINE.

National Jaw, 14x8, on wheels.—MARINE.

Gyratory, Nos. 8, 7½, 6, 5, 4, 3.—GIVIN.

1 No. 2 Climax on trucks with 15' elevator with 18 H.P. mounted Climax portable engine and boiler.—BECKWITH.

DERRICKS

1 Steel stiff leg, 70' boom; 1 steel guy, 70' boom, 25 tons cap.; 1 steel traveling, 45' boom.—GIVIN.

DREDGES

Hydraulic and dipper. Sale or charter.—GIVIN.

ELECTRIC LIGHTS

For sale at less than half cost. Sixty 300 C.P. D.C. 220 V. Nernst arc lamps, moon globes. In perfect running condition. Can be seen in use in our offices; $4 each. (Regular price, $9.50). Price includes drop lighting switch. Must sell as our voltage is 110 in new office. HILL PUBLISHING CO., 10th Ave. at 36th St., New York.

ENGINES, GAS

1 8 H.P. Vertical Type Fairbanks with sub-base.—SAMPSON

1—5 H. P. Mietz & Weiss.—PIPE & C. S. CO.

EXCAVATORS

1 Monighan Drag Line with one and two-yd. bucket in Detroit, Mich.—CARPENTER.

FEED WATER HEATERS

Several types, capacities up to 1200 HP.—NEW RIVER.

FIRE ENGINES

2 Fire Engines, condition, first class.—HITNER'S.

GRAVEL PLANT

[Wanted]

Ladder or dipper dredge—steam shovel—for gravel plant. State price and full particulars. W. 740, Eng. News.

HAMMER

1 No. 6 Arnott Hammer.—HYATT.

Most items are signed with only part of the advertiser's name. Complete names and addresses in alphabetical order will be found under the heading "Addresses."

HOISTING ENGINES

Lidgerwood 10x12 D.D.D.C. side by side drums, 33" diam.—MARINE.

Lidgerwood, 5x8 D.D.D.C. with boiler.—MARINE.

12 Lidgerwood, Lambert and others. Also one 5 lever Stroudsburg 7x10 cableway engine. PIPE & C. S. CO.

2 Lidgerwood 14x18, D.C. 3-tandem drum, reversible link motion; 1 Lidgerwood, 10x12, D.C. S.D. reversible link motion; 1 Lambert, 10x12, D.C. D.D. with boiler; 2 Lambert, 8x10, D.C. D.D. with Mass. boilers; 1 Lambert 7x10, D.C. D.D. with boiler; 1 Mundy, 7¼x10, D.C. D.D. with boiler; 1 Mundy, 6¼x10, D.C. D.D. with boiler; 1 O. & S. 6¼x8, D.C. D.D. with boiler. 2 Lidgerwood, 60 H.P. D.D. and swinger d.c. hoists.—HITNER'S.

9x10 Lidgerwood 3 drum—8¼x10 Lidgerwood D.D. with or without boiler or swinger. Other sizes.—GIVIN.

1—7½ H.P. single drum electric hoist.—BECKWITH.

ONE HUNDRED NINETEEN hoists. Immediate delivery. 3- drum, 7x10, 8¼x10, 9x10, Skeleton or boiler.—HOISTING.

INSTRUMENTS, SURVEYING

Second-Hand Transits, Levels, etc. Bought, sold or exchanged. Send for list of Second-Hand Instruments. Get our prices before ordering. WILLIAMS, BROWN & EARLE, Inc., Engineering Supplies, Dept. E, 918 Chestnut St., Phila.

Gurley Lt. Mt. Transit V circ. with guard; reversion tel. level; ex. diag. eye piece; stadia; Ainsworth Solar; Cost $240. Good cond., repair perfect. $175.—R. F. GRAY, Lusk, Wyo.

1 "Sterling" Architects Wye level.—HYATT.

LOCOMOTIVES

[Standard Gauge]

1 Porter, Std. G., 20-ton, 12x18, saddle tank.—DOUGLAS

50 locomotives, Switch, Mogul, Consolidation, Ten Wheel and Saddle Tank types.—SOUTHERN.

Baldwin, 14x24, 4-driver, S. T., new this year.—DALLETT

2—40 ton switchers, overhauled.—CONTRACTORS S. CO.

[36" Gauge]

10 10x16" Porter, Davenport and Vulcans.—SOUTHERN.

5 9x14" Porters.—SOUTHERN.

9x14 Porter and 10x16 Baldwin.—BRADEN.

2—9x14 Baldwin saddle tank.—BECKWITH.

5—10x16 Vulcans, 1911-12.—CONTRACTORS S. CO.

LOCOMOTIVE CRANES

4 and 8-wheel, 10, 15 and 20 tons capacity.—HOISTING MACHINERY Co., 48 Church St., New York City.

4 and 8 wheel 10 and 15 ton.—CONTRACTORS S. CO.

15-ton Browning, 4-wheel, S. G., 50' boom.—DALLETT.

1—7 Ton, 4 wheel, Industrial, 21' boom; 1—15 ton, 8-wheel, Industrial, wrecking crane, 20' boom, goose neck.—HITNER'S.

15 ton excellent condition, cheap.—STALLEY.

4 and 8 wheel, 10, 15, 20 and 25 tons capacity.—GIVIN.

[Wanted]

Small, March 1st delivery.—DRILLING CONTRACTING CO., INC., 35 State St., Albany, N. Y.

MIXERS (Asphalt and Concrete)

Hadsel 2 yd. Batch, with engine,—on channels.—MARINE

Smith ¾ yd. Batch with engine,—on skids—MARINE.

Foote (cont.) No. 3, 7½ H.P. motor D.C. on wheels.—MARINE

Portable plant, complete capacity 300-600 yds. per day: rare bargain.—LINES FLYNN.

1 Continuous Foote with 10 H.P. d.c. motor direct connected; 3—¾ yd. and 2—½ yd. Ransomes with engines—on skids. Two No. 2½ Smiths with engines—on wheels.—PIPE & C. S. CO.

PILING, SHEET STEEL

5000 pieces Lackawanna and Carnegie.—GRIMSHAW.

[Wanted]

50 lin.ft. good Lackawanna, in pieces, about 25' long.—CHATFIELD & CHATFIELD, Inc., 94 Benedict St., Waterbury, Conn.

PIPE

All sizes. ½" to 18" with perfect threads and couplings. also larger sizes. Pipe cut to sketch. PIPE & C. S. CO.